



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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| <p>(21) International Application Number: <b>PCT/EP00/00319</b></p> <p>(22) International Filing Date: 17 January 2000 (17.01.00)</p> <p>(30) Priority Data:<br/>           9901037.3 18 January 1999 (18.01.99) GB<br/>           9912585.8 28 May 1999 (28.05.99) GB         </p> <p>(71) Applicant (for all designated States except US): OSTEOIM-<br/>TER BIOTECH A/S [DK/DK]; OsteoPark, Herlev Hov-<br/>edgade 207, DK-2730 Herlev (DK).</p> <p>(72) Inventor; and<br/>           (75) Inventor/Applicant (for US only): KUSK, Philip [DK/DK];<br/>           OsteoPark, Herlev Hovedgade 207, DK-2730 Herlev (DK).</p> <p>(74) Agent: SMART, Peter, J.; W.H. Beck, Greener &amp; Co., 7 Stone<br/>           Buildings, Lincoln's Inn, London WC2A 3SZ (GB).</p> |  | <p>(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG,<br/>           BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE,<br/>           ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP,<br/>           KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,<br/>           MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU,<br/>           SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,<br/>           US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE,<br/>           LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM,<br/>           AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT,<br/>           BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU,<br/>           MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM,<br/>           GA, GN, GW, ML, MR, NE, SN, TD, TG).</p> <p><b>Published</b><br/> <i>Without international search report and to be republished upon receipt of that report.</i></p> |   |
| <p>(54) Title: GENETIC PREDISPOSITION</p> <p>(57) Abstract</p> <p>Methods of assessing an individual's predisposition to abnormal calcification conditions such as osteoporosis by determining the genotype of a promoter for the bone sialoprotein gene, the matrix gla protein gene, the osteopontin gene or the osteoprotegerin gene individually or in any combination. Specific allelic variations for each promoter are described.</p>  |  |   |   |